

What Is Claimed Is:

1. *Bacillus amyloliquefaciens* KTGB0202 (accession number: KCTC 10564BP) having an antifungal activity against plant
5 pathogenic fungi and an inhibitory effect against plant virus infection.

2. The *Bacillus amyloliquefaciens* KTGB0202 of Claim 1,
wherein the plant pathogenic fungus is one selected from powdery
10 mildew, *Cladosporium* sp., *Colletotrichum* sp., *Phytophthora* sp.,
Botrytis cinerea, *Rhizoctonia solani*, *Fusarium* sp., *Alternaria*
sp., *Magnaporthe grisea*, *Puccinia recondita*, *Corticium sasaki*,
and *Candida* sp.

3. The *Bacillus amyloliquefaciens* KTGB0202 of Claim 2,
wherein the powdery mildew is one selected from *Sphaerotheca*
15 *fuliginea* of gourd plants, *S. humuli* of strawberry, *S. pannosa*
of rose, *Erysiphe tabacina* of tobacco, *Leveillula taurica* and
Erysiphe cichoracearum of Solanaceae vegetables, *Leveillula*
20 *heraclei* of carrots, and *Blumeria graminis* of barley.

4. The *Bacillus amyloliquefaciens* KTGB0202 of Claim 1,
wherein the plant virus is tobacco mosaic virus (TMV).

5. A method for controlling plant pathogens using the
25 *Bacillus amyloliquefaciens* KTGB0202 culture broth of Claim 1.

6. A antifungal substance KTGB0202-AF01 showing antifungal
activity, which is obtained by extraction and purification from
30 the *Bacillus amyloliquefaciens* KTGB0202 of Claim 1.